05°90
0906

```
RAW SEQUENCE LISTING                    DATE: 09/13/2001
PATENT APPLICATION:  US/09/939,293      TIME: 11:08:30

Input Set : A:\465.app.txt
Output Set: N:\CRF3\09132001\I939293.raw
```

ENTERED

```
   4 <110> APPLICANT: Alnemri, Emad S.
   6 <120> TITLE OF INVENTION: AN IAP PEPTIDE OR POLYPEPTIDE
   7       AND METHODS OF USING THE SAME
  10 <130> FILE REFERENCE: 480140.465
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/939,293
  13 <141> CURRENT FILING DATE: 2001-08-24
  15 <160> NUMBER OF SEQ ID NOS: 18
  17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
  19 <210> SEQ ID NO: 1
  20 <211> LENGTH: 1358
  21 <212> TYPE: DNA
  22 <213> ORGANISM: Homo sapiens
  24 <220> FEATURE:
  25 <221> NAME/KEY: CDS
  26 <222> LOCATION: (20)...(739)
  28 <400> SEQUENCE: 1
  29 ggcgtccgcg cgctgcaca atg gcg gct ctg aag agt tgg ctg tcg cgc agc   52
  30                     Met Ala Ala Leu Lys Ser Trp Leu Ser Arg Ser
  31                      1               5                      10
  33 gta act tca ttc ttc agg tac aga cag tgt ttg tgt gtt cct gtt gtg  100
  34 Val Thr Ser Phe Phe Arg Tyr Arg Gln Cys Leu Cys Val Pro Val Val
  35             15                  20                  25
  37 gct aac ttt aag aag cgg tgt ttc tca gaa ttg ata aga cca tgg cac  148
  38 Ala Asn Phe Lys Lys Arg Cys Phe Ser Glu Leu Ile Arg Pro Trp His
  39          30                  35                  40
  41 aaa act gtg acg att ggc ttt gga gta acc ctg tgt gcg gtt cct att  196
  42 Lys Thr Val Thr Ile Gly Phe Gly Val Thr Leu Cys Ala Val Pro Ile
  43       45                  50                  55 56
  45 gca cag aaa tca gag cct cat tcc ctt agt agt gaa gca ttg atg agg  244
  46 Ala Gln Lys Ser Glu Pro His Ser Leu Ser Ser Glu Ala Leu Met Arg
  47 60                  65                  70                  75
  49 aga gca gtg tct ttg gta aca gat agc acc tct acc ttt ctc tct cag  292
  50 Arg Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr Phe Leu Ser Gln
  51                  80                  85                  90
  53 acc aca tat gcg ttg att gaa gct att act gaa tat act aag gct gtt  340
  54 Thr Thr Tyr Ala Leu Ile Glu Ala Ile Thr Glu Tyr Thr Lys Ala Val
  55                  95                  100                 105
  57 tat acc tta act tct ctt tac cga caa tat aca agt tta ctt ggg aaa  388
  58 Tyr Thr Leu Thr Ser Leu Tyr Arg Gln Tyr Thr Ser Leu Leu Gly Lys
  59          110                 115                 120
  61 atg aat tca gag gag gaa gat gaa gtg tgg cag gtg atc ata gga gcc  436
  62 Met Asn Ser Glu Glu Glu Asp Glu Val Trp Gln Val Ile Ile Gly Ala
  63       125                 130                 135
  65 aga gct gag atg act tca aaa cac caa gag tac ttg aag ctg gaa acc  484
  66 Arg Ala Glu Met Thr Ser Lys His Gln Glu Tyr Leu Lys Leu Glu Thr
  67 140                 145                 150                 155
  69 act tgg atg act gca gtt ggt ctt tca gag atg gca gca gaa gct gca  532
```

```
70 Thr Trp Met Thr Ala Val Gly Leu Ser Glu Met Ala Ala Glu Ala Ala
71                 160                 165                 170
73 tat caa act ggc gca gat cag gcc tct ata acc gcc agg aat cac att  580
74 Tyr Gln Thr Gly Ala Asp Gln Ala Ser Ile Thr Ala Arg Asn His Ile
75             175             180                 185
77 cag ctg gtg aaa ctg cag gtg gaa gag gtg cac cag ctc tcc cgg aaa  628
78 Gln Leu Val Lys Leu Gln Val Glu Glu Val His Gln Leu Ser Arg Lys
79             190                 195                 200
81 gca gaa acc aag ctg gca gaa gca cag ata gaa gag ctc cgt cag aaa  676
82 Ala Glu Thr Lys Leu Ala Glu Ala Gln Ile Glu Glu Leu Arg Gln Lys
83         205                 210                 215
85 aca cag gag gaa ggg gag gag cgg gct gag tcg gag cag gag gcc tac  724
86 Thr Gln Glu Glu Gly Glu Glu Arg Ala Glu Ser Glu Gln Glu Ala Tyr
87 220                 225                 230                 235
89 ctg cgt gag gat tga gggcctgagc acactgccct gtctccccac tcagtgggga  779
90 Leu Arg Glu Asp  *
93 aagcaggggc agatgccacc ctgcccaggg ttggcatgac tgtctgtgca ccgagaagag 839
94 gcggcaggtc ctgccctggc caatcaggcg agacgccttt gtgagctgtg agtgcctcct 899
95 gtggtctcag gcttgcgctg gacctggttc ttagcccttg ggcactgcac cctgtttaac 959
96 atttcacccc actctgtaca gctgctctta cccatttttt ttacctcaca cccaaagcat 1019
97 tttgcctacc tgggtcagag agaggagtcc tttttgtcat gcccttaagt tcagcaactg 1079
98 tttaacctgt tttcagtctt atttacgtcg tcaaaaatga tttagtactt gttccctctg 1139
99 ttgggatgcc agttgtggca gggggagggg aacctgtcca gtttgtacga tttctttgta 1199
100 tgtatttctg atgtgttctc tgatctgccc ccactgtcct gtgaggacag ctgaggccaa 1259
101 ggagtgaaaa acctattact actaagagaa ggggtgcaga gtgtttacct ggtgctctca 1319
102 acaggactta acatcaacag gacttaacac agaaaaaaa                       1358
104 <210> SEQ ID NO: 2
105 <211> LENGTH: 40
106 <212> TYPE: PRT
107 <213> ORGANISM: Homo sapiens
109 <400> SEQUENCE: 2
110 Ala Val Pro Ile Ala Gln Lys Ser Glu Pro His Ser Leu Ser Ser Glu
111 1               5                   10                  15
112 Ala Leu Met Arg Arg Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr
113             20                  25                  30
114 Phe Leu Ser Gln Thr Thr Tyr Ala
115         35                  40
118 <210> SEQ ID NO: 3
119 <211> LENGTH: 5
120 <212> TYPE: PRT
121 <213> ORGANISM: Homo sapiens
123 <220> FEATURE:
124 <221> NAME/KEY: VARIANT
125 <222> LOCATION: (4)...(4)
126 <223> OTHER INFORMATION: Xaa = Arg, Gln or Gly
128 <400> SEQUENCE: 3
W--> 129 Gln Ala Cys Xaa Gly
130 1               5
133 <210> SEQ ID NO: 4
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RAW SEQUENCE LISTING   DATE: 09/13/2001
PATENT APPLICATION: US/09/939,293   TIME: 11:08:30

        Input Set : A:\465.app.txt
        Output Set: N:\CRF3\09132001\I939293.raw

134 <211> LENGTH: 7
135 <212> TYPE: PRT
136 <213> ORGANISM: Homo sapiens
138 <400> SEQUENCE: 4
139 Met Lys Ser Asp Phe Tyr Phe
140 1   5
143 <210> SEQ ID NO: 5
144 <211> LENGTH: 5
145 <212> TYPE: PRT
146 <213> ORGANISM: Homo sapiens
148 <400> SEQUENCE: 5
149 Ala Val Pro Ile Ala
150 1   5
153 <210> SEQ ID NO: 6
154 <211> LENGTH: 7
155 <212> TYPE: PRT
156 <213> ORGANISM: Homo sapiens
158 <400> SEQUENCE: 6
159 Ala Val Pro Ile Ala Gln Lys
160 1   5
163 <210> SEQ ID NO: 7
164 <211> LENGTH: 30
165 <212> TYPE: PRT
166 <213> ORGANISM: Homo sapiens
168 <400> SEQUENCE: 7
169 Ala Val Pro Ile Ala Gln Lys Ser Glu Pro His Ser Leu Ser Ser Glu
170 1   5   10   15
171 Ala Leu Met Arg Arg Ala Val Ser Leu Val Thr Asp Ser Thr
172   20   25   30
175 <210> SEQ ID NO: 8
176 <211> LENGTH: 39
177 <212> TYPE: PRT
178 <213> ORGANISM: Homo sapiens
180 <400> SEQUENCE: 8
181 Ala Val Pro Ile Ala Gln Lys Ser Glu Pro His Ser Leu Ser Ser Glu
182 1   5   10   15
183 Ala Leu Met Arg Arg Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr
184   20   25   30
185 Phe Leu Ser Gln Thr Thr Tyr
186   35
189 <210> SEQ ID NO: 9
190 <211> LENGTH: 9
191 <212> TYPE: PRT
192 <213> ORGANISM: Homo sapiens
194 <400> SEQUENCE: 9
195 Met Lys Ser Asp Phe Tyr Phe Gln Lys
196 1   5
199 <210> SEQ ID NO: 10
200 <211> LENGTH: 8

RAW SEQUENCE LISTING   DATE: 09/13/2001
PATENT APPLICATION: US/09/939,293   TIME: 11:08:30

Input Set : A:\465.app.txt
Output Set: N:\CRF3\09132001\I939293.raw

```
201 <212> TYPE: PRT
202 <213> ORGANISM: Homo sapiens
204 <400> SEQUENCE: 10
205 Thr Asp Ser Thr Ser Thr Phe Leu
206 1               5
209 <210> SEQ ID NO: 11
210 <211> LENGTH: 35
211 <212> TYPE: PRT
212 <213> ORGANISM: Homo sapiens
214 <400> SEQUENCE: 11
215 Ala Val Pro Ile Ala Gln Lys Ser Glu Pro His Ser Leu Ser Ser Glu
216 1               5                   10                  15
217 Ala Leu Met Arg Arg Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr
218             20                  25                  30
219 Phe Leu Ser
220         35
223 <210> SEQ ID NO: 12
224 <211> LENGTH: 9
225 <212> TYPE: PRT
226 <213> ORGANISM: Homo sapiens
228 <400> SEQUENCE: 12
229 Ile Glu Thr Asp Ala Val Pro Ile Ala
230 1               5
233 <210> SEQ ID NO: 13
234 <211> LENGTH: 4
235 <212> TYPE: PRT
236 <213> ORGANISM: Homo sapiens
238 <400> SEQUENCE: 13
239 Ala Val Pro Ile
240 1
243 <210> SEQ ID NO: 14
244 <211> LENGTH: 4
245 <212> TYPE: PRT
246 <213> ORGANISM: Homo sapiens
248 <400> SEQUENCE: 14
249 Ala Thr Pro Phe
250 1
253 <210> SEQ ID NO: 15
254 <211> LENGTH: 4
255 <212> TYPE: PRT
256 <213> ORGANISM: Drosophila sp.
258 <400> SEQUENCE: 15
259 Ala Val Ala Phe
260 1
263 <210> SEQ ID NO: 16
264 <211> LENGTH: 4
265 <212> TYPE: PRT
266 <213> ORGANISM: Drosophila sp.
268 <400> SEQUENCE: 16
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269 Ala Val Pro Phe
270  1
273 <210> SEQ ID NO: 17
274 <211> LENGTH: 4
275 <212> TYPE: PRT
276 <213> ORGANISM: Mus musculus
278 <400> SEQUENCE: 17
279 Ala Val Pro Tyr
280  1
283 <210> SEQ ID NO: 18
284 <211> LENGTH: 4
285 <212> TYPE: PRT
286 <213> ORGANISM: Xenopus sp.
288 <400> SEQUENCE: 18
289 Ala Thr Pro Val
290  1
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VERIFICATION SUMMARY
PATENT APPLICATION: US/09/939,293

DATE: 09/13/2001
TIME: 11:08:31

Input Set : A:\465.app.txt
Output Set: N:\CRF3\09132001\I939293.raw

L:12 M:270 C: Current Application Number differs, Wrong Format
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3